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## MODULE VI- HAZARDOUS WASTE LANDFILLS

### VI.A. APPLICABILITY

- VI.A.1. The Permittee shall only dispose of hazardous wastes in the following landfill cells and the rated capacities shall not exceed the following nominal volumes shown below, except as allowed in Condition VI.D.2. In addition, measuring from the top of the berm, the average height of waste will be less than or equal to the maximum allowed height of waste in the cell at closure as shown below. The Executive Secretary has the authority to require the Permittee to conduct a survey of the cell to verify compliance with this condition.

Cell Number	Capacity, cubic yards <sup>1</sup>	Maximum height of waste above the berm at closure, feet above avg. berm height <sup>1</sup>
4	535,500	26.41
5	510,300	31.27
7	733,000	28.45

- VI.A.2. Landfill Cells 1, 2, and 3 have been closed and no additional wastes may be placed in these landfill cells.
- VI.A.3 Industrial Waste Cells 1 and 2 (IWC-1 and IWC-2) are included in this permit solely for the purposes of post-closure. These cells were originally designed and permitted for the disposal of non-hazardous waste, but have received small quantities of hazardous waste and as such are now regulated by this permit. These cells were closed in 1998.

### VI.B. WASTE IDENTIFICATION

- VI.B.1. The Permittee shall dispose of the hazardous wastes listed in Attachment II - WAP Appendix 2 that meet LDR standards or approved variances in landfill cells 4 through 7.

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<sup>1</sup> Volumes are approximate. The point of compliance is the height above the berm. The berm height is calculated by averaging elevations measured every 50 linear feet around the perimeter (berm) of the cell.

- VI.B.2. The waste management practices specified in the Supplemental Waste Management Plan in Attachment II-8 shall apply to wastes F020, F021, F022, F023, F026, F027 and F028. On-site generated wastes derived from the handling of these residues shall also be managed according to the Attachment II-8.
- VI.B.3. The Permittee may dispose, in Landfill Cells 4, 5, and 7, the following wastes not specified by EPA waste code numbers providing that all free liquids are stabilized or removed and documented in the Operating Record:
- VI.B.3.a. Floor drain, wheel wash and sump residues.
- VI.B.4.b. Non hazardous waste. Non-hazardous waste shall not be mixed with hazardous waste such that impermissible dilution occurs, as specified under R315-13-1.
- VI.B.4. CERCLA Hazardous Wastes. The Permittee is authorized to receive wastes that arrive without EPA waste code numbers, provided that these wastes are from remediation sites regulated under CERCLA or are defined as hazardous waste by this permit. These wastes shall be managed as hazardous wastes and are subject to the terms of this permit.
- VI.B.5. Free liquids shall not be disposed in any of the landfill cells, except as provided by Condition VI.K.
- VI.B.6. Wastes bearing a P999 waste code shall only be accepted if they are treatment residues which also bear the F999 waste code and are in media listed below:
- soils
  - incinerator ash, scrubber residues, slag, and baghouse dust
  - activated carbon
  - brine
- VI.B.7. The Permittee shall not issue a waste acceptance for any P999/F999 waste code combination that is not identified in VI.B.6. without prior written approval by the Executive Secretary.



**VI.C.                    GENERAL DESIGN AND CONSTRUCTION OF LANDFILL CELLS**

- VI.C.1.                The Permittee shall design and construct landfill cells to meet the current (as of the date of the Permit) state and federal regulations for hazardous waste landfills.
- VI.C.2.                Construction of each landfill cell shall follow the construction quality assurance (CQA) program as outlined in 40 CFR 264.19 and in Attachment VI-2 of this Permit. The construction quality assurance plan shall cover all aspects of design and construction. The final design with installation procedures shall be approved by the Executive Secretary prior to commencement of construction.
- VI.C.3.                The CQA plan shall remain part of the permit throughout closure and post-closure activities. This CQA Plan is Attachment VI-2 .
- VI.C.4.                Field changes to the design or construction details may require a modification to the CQA plan. The "Change Control Procedures" in the CQA Plan shall be adhered to. If a modification to the CQA plan is necessary, as determined by the Executive Secretary, construction may only proceed after the Executive Secretary evaluates the impact of the change and approves the permit modification request. The Permittee shall document this field change and place a description of this modification in the facility's CQA plan and mail a copy to the Executive Secretary within seven calendar days of the field change. All field change orders shall become a permanent record and be kept with the CQA document.
- VI.C.5.                All Class 1 field modifications, affecting the CQA plan after construction has started, may be submitted to the Executive Secretary in one Class 1 permit modification after completion of construction. This shall include all "as built" drawings and any changes of materials used for construction and any changes to the procedures used to construct the landfill cell.
- VI.C.6.                All Class 2 and Class 3 permit modifications affecting the CQA plan, as specified in R315-3-15, shall require Executive Secretary approval after the appropriate public comment period.
- VI.C.7.                Subsequent modifications to the landfill cell, after completion of the initial construction period, shall be considered either a Class 1, 2 or 3 permit

modification. All approved modifications to the CQA plan shall be documented and kept with the CQA plan so future changes, corrective action or closures can be evaluated with correct information.

**VI.D. GENERAL OPERATING REQUIREMENTS**

- VI.D.1. The Permittee shall operate all landfill cells as required by R315-8-14 and as specified in this permit.
- VI.D.2. The Permittee shall not exceed the rated capacity of a landfill cell, except by a margin of five percent, nor shall the average waste elevation exceed the permitted final waste elevation except by a margin of one foot without written approval by the Executive Secretary. These deviations shall be allowed for periods up to 24 hours and only after notification of closure as required by Condition II.N.4. and only for the purposes of grading with power equipment to gain final contours. In addition, waste elevations are allowed to be exceeded for a period up to 24 hours to facilitate the proper placement of wastes and cover during normal day-to-day operations.
- VI.D.3. The Permittee shall repair any damage to the liner, including damage caused during landfill operations, by repairing the liner according to the liner repair procedures contained in the specific CQA Plan for the facility at the time the damage occurs. Documentation of repairs shall be submitted to the Executive Secretary. The Executive Secretary will review the documentation to verify that the repair was done in accordance with the CQA Plan.
- VI.D.4. In accordance with R315-8-14.2(a)(2) the leachate collection and removal system shall be operated in such a manner as to assure that the leachate depth over the primary liner does not exceed one foot.
- VI.D.5. The Permittee shall submit to the Executive Secretary on a quarterly basis (no later than 20 days following the end of the quarter), daily leachate collection/removal volumes for each applicable collection and detection sump. If the Permittee discovers the presence of liquid in the upper leak detection system ("B" risers) in quantities greater than 15 gallons per acre per day or if the Permittee discovers the presence of liquid in the lower leak detection system ("C" risers) in quantities greater

than ten gallons per acre per day, the Permittee shall notify the Executive Secretary within 72 hours of discovery.

- VI.D.5.a. When an exceedence in the B or C risers occurs, a sample shall be obtained and analyzed for semi-volatile compounds. The analysis will be submitted to the Executive Secretary within ten days following the facility's receipt of the data from the laboratory. The Permittee shall provide other information deemed necessary by the Executive Secretary. Along with the analysis submittal, the Permittee shall submit a remediation plan to the Executive Secretary outlining the steps to be taken to correct the problem (i.e., repair of liner, closure of landfill cell). Upon approval, the Permittee shall implement the plan within the time frame specified by the Executive Secretary.
- VI.D.5.b. An alternate to Condition VI.D.5. is the one foot of head as defined in R315-8-14.2(a)(2).
- VI.D.6. Vehicles (e.g. trucks, backhoes, cranes, etc.) exiting restricted areas shall have their wheels/ tracks washed at the wheel wash facility located at the exit of the restricted area(s). Restricted areas are identified on the site drawing found in Attachment II-1.
- VI.D.7. The Permittee shall follow the waste analysis requirements contained in Condition II.D.
- VI.D.8. Treated wastes may be temporarily "put" onto a liner or in a container (put-pile) within a hazardous waste landfill cell while awaiting laboratory (verification) analyses. The liner shall be visible on all sides of the waste so as to prevent commingling with the waste in the landfill and other put-piles. "Temporarily" shall mean six months or less. Such wastes shall be labeled with a tracking number and located in such a manner that allows complete retrieval of the waste should the waste analyses subsequently determine that the waste does not meet the treatment standards of R315-13-1. No more than 250 put-piles may exist at any one time and wastes making up a put-pile shall be disposed within one year of receipt at GMF.

**VI.E. MANAGEMENT OF RUN-ON/RUNOFF CONTROL FACILITIES**



The Permittee shall manage all landfill cells with run-on and runoff control systems as required by R315-8-14.2 in order to not exceed required design capacity specified in Attachment VI-3.

**VI.F.            INSPECTIONS**

The Permittee shall conduct inspections of all active and closed landfill cells in accordance with Condition II.F.

**VI.G.            PROCEDURES TO CONTROL WIND DISPERSAL OF WASTES**

VI.G.1.        The Permittee shall comply with the requirements of R315-8-14.2(j) by covering material subject to wind dispersal within 24 hours of placement in the cell. The cover shall be maintained until additional wastes are applied to that portion of the cell. The cover shall only be as follows:

- a.        Heavier bulk material (greater density);
- b.        Mechanically-sprayed water;
- c.        Dust-suppressing foam;
- d.        Other suitable material as approved by the Executive Secretary.

VI.G.2.        The Permittee shall not substitute leachate for water in controlling wind dispersal.

VI.G.3.        Water shall not be sprayed to the extent that ponding occurs in the landfill.

VI.G.4.        The Permittee shall cease operation of the landfill cell(s) (i.e. transporting waste into the cell and heavy vehicle movement within the cell, except for equipment utilized to control wind dispersal) when windy conditions exist that cause dust and any other waste to leave the cell(s).

VI.G.5.        For purposes of compliance with Condition VI.G., all material within the berm of the operational hazardous waste landfill cells is considered to be hazardous waste.

**VI.H.            SURVEYING AND RECORDKEEPING**

The Permittee shall comply with the surveying and recordkeeping requirements of R315-8-14.4 for all landfill cells.

**VI.I. SPECIAL REQUIREMENTS for IGNITABLE/REACTIVE WASTE**

The Permittee shall comply with all management provisions pertaining to ignitable and reactive wastes as required by R315-8-14.6.

**VI.J. ENCAPSULATION OF REACTIVE WASTES**

The Permittee shall not encapsulate and dispose of reactive wastes in landfill cells.

**VI.K. RESTRICTIONS ON LIQUIDS IN LANDFILLS**

VI.K.1. The Permittee shall comply with all provisions of R315-8-14.8 pertaining to free liquid wastes. Containerized, solidified, or treated waste shall not contain free liquids as determined by the Paint Filter Liquids Test (SW-846, Method 9095) before being placed in a landfill cell as required by R315-8-14.8(d).

VI.K.2. The Permittee shall stabilize all bulk and containerized liquids (except small lab. vials) prior to placement into a landfill unit. Materials used to stabilize waste shall not be biodegradable in accordance with R315-8-14(e).

**VI.L. SPECIFIC REQUIREMENTS FOR CONTAINERS**

VI.L.1. The Permittee shall comply with R315-8-14.9 concerning the burial of containers in landfill units.

VI.L.2. The Permittee shall comply with R315-8-14.10 concerning the disposal of small containers of hazardous waste in overpack drums and lab packs.

**VI.M. CLOSURE/POST-CLOSURE**

The Permittee shall close all landfill cells and provide post-closure care as required by Condition II.N, and R315-8-7 and R315-8-14.5 and Attachment II-7.

ATTACHMENT VI-1

LANDFILL DRAWINGS AND SPECIFICATIONS

ATTACHMENT VI-2

CONSTRUCTION QUALITY ASSURANCE PLAN FOR LANDFILL CELL  
CONSTRUCTION AND CLOSURE

ATTACHMENT VI-3

RUN-ON/RUN-OFF SYSTEM REQUIREMENTS